











[illegible]

### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The pinch-snap process is composed of four steps. The first two steps depicted in Figure 1

Referring to FIG. 1 and FIG. 1A, the pinch-slip process begins with using one hand to

Referring to FIG. 2 and FIG. 2A, while maintaining pressure control

At the point in the pinch-snap process when the thumb and fingers have reached their



after the seal is broken. This is the only area on the polymeric bag which necessitates a grip. A coextensive grip is unnecessary. Consequently, the "target area" for the aerosol application of the non-slip coating is the center of the profile zipper's longitudinal axis as shown in FIG. 6-60. Depicted as section 60, the target area extends outward from the profile's longitudinal center, 0.5" in both directions along the longitudinal axis and 0.5" down from the lip of the bag. The disclosed target area dimensions are intended as examples, rather than limitations. There should be a mirror image of this grip arrangement on the opposite exterior wall of the polymeric bag. Said target area should be kept to a minimum length along the longitudinal axis to prevent any significant obstruction when sliding fingers over the profile 61 during the sealing thereof.

Many viable means for applying aerosol coatings are available. For example, U.S. Patent No. 5,464,154 and 5,670,202 disclose several processes which provide a momentary spray using a mask for accuracy and peripheral vacuum to collect any overspray. According to prior art, the typical manufacturing process starts with profile members being extruded onto a continuous polymeric sheet. The sheet is folded and heat-sealed to form a chain of pouches. These pouches are then severed at the seal to form individual reclosable polymeric bags. After the heat-sealing process, the physical dimensions of each individual bag are defined, thereby making it possible to target the longitudinal center. Before severing, the bags are still connected in a continuous chain making it possible to control their positioning. Consequently, the non-slip coating should be applied just after the sealing station but before the severing station.

The following grip arrangements are alternate embodiments of the present invention. Although coextensive grips are unnecessary, the manufacturing process is simplified with a coextruded profile and grip.

FIG. 7 is another embodiment of the present invention in the form of an integral grip arrangement. The coextruded longitudinally coextensive profile sections 70 are of a copolymer blend consisting of a non-slip "wet friction" compound. U. S. Patent No. 5,314,940, hereby incorporated by reference, describes a compound with a surface friction that increases under damp conditions. Said compound does not use any



particulate material and includes a hydrogenated polybutene plasticizer as one of its preferred formulations. Amoco Chemical Company of Chicago, Illinois manufactures said compound under the designation H-300. The walls of the polymeric bag 71 are bonded to the inner face 72 of coextruded flanges 73. The flanges are necessary to expose non-slip surfaces 74 to allow for gripping.

FIG. 8, which is another embodiment of the present invention, is a roller embossed grip arrangement wherein a coextruded flange is embossed with a grip pattern 80. The opposing flange adjacent to the opposing profile member is identically embossed. European Patent No. 0089680 details a roller embossing process wherein a fresh extrusion, partially cooled, passes through a pair of rollers. One roller of said pair with a grip pattern inscribed thereon, impresses its surface texture onto said polymeric resin extrusion. This process may be used on profile coextrusions without any heat deformity, as long as the profile members are not on the opposite side of the surface being embossed. FIG. 8A, taken along reference line 8A—8A in FIG. 8 is the cross-sectional view. It exemplifies a grip arrangement conducive to roller embossing wherein the surface being embossed 80 is clear of any profile elements on its inner face 81.

While several specific embodiments of the invention have been shown and described in some detail, it will become apparent to those versed in the art that a number of other embodiments are possible which are still fairly within the scope of the general teachings and principles found herein.